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(Anesthesia) (Meshalkin, E.N.)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927520005-1"

- 1. KUMSARW, A. Ya.
- 2. USSR (600)
- 4. Lielauce, Lake Plankton
- 7. Annual development cycle of the phytoplankton of Lake Lielauce. Latv PSR Zin Akad Vestis No. 10 1951.

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SO: Izvestiva Ak, Nauk Latvivskov SSR, No. 9, Sept., 1955

KUNGALE, A. Ya

Ford books for flob-planktonophages in Latvian indistrial lakes, p. 155.

PIOLOGICHESKIIA MAUKA; SELSKOMU L LYSNOW EKZMAISTVU. (Latvija: PSR Zinairu ekademija. Biologijus zinatru medala) kira, Latvia, Pc. 3, 1957.

Honthly list of Eact European Accessions (EMAI), IC, Vol. 8, No. 8, August 1959. Uncle.

KACALOVA, O.; KUMSARE, A.; KUNDZINS, M.; SKLENNIKS, C., red.; CERNOBROVA, L., tekhn. red.

[Large lakes in the vicinity of Riga]Lielie ezeri Rigas apkartne. Riga, Latvijas PSR Zinatnu Akademijas Izdevnieciba, 1962. 66 p. (MIRA 16:2)

(Riga region--Lakes)

Stady of the control stability of power plant matthes in consolidated alcotrical systems. Trudy VNIIE ro. 18:128-136 164.

(MIRA 18:6)

KUMSIASHVILI, G.P., aspirant

Physical modeling of a hydraulic turbine and generator with MEI no.46:133-140 % 163.

Basis for the parameters of a hydroelectric power system laboratory. Ibid.:141-158 (MIRA 18:3)

l. Kafedra gidroenergetiki Moskovskogo  $\cdot$ rdena Lenina energeticheskogo instituta.

KUMSIASHVILI, G.P.

Study of the stability of regulation of thermal electric power plant blocks in composite power systems. lev. AN Arm. StR. Ser. tekh. nauk 17 no.2221-28 64 (MTRA 1727)

1. Vsesoyuznyy nauchno-issledovatel; iy institut elektroener-getiki.

# KUMSIASHVILI, G.P.

Stability of the regulation of station generator units in power generating systems. Dokl. AN Arm. SSR 38 no.4:231-234 '64.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektroenergetiki. Predstavleno akademikom AN Armyanskoy SSR I.V.Yegiazarovym.

Edipting viriable KZP 5708 (S 4695). Ptul. Abast. setrofiz. obser. nc.30:45-48 '64. (VIR. 17:5)

KUMSIASHVILI, R.N. (Tbilisi, ul. Atarbekova, d.4)

Penetration of an esophageal ulcer into the aorta. Vest.khir. 78 no.6:116-118 Je '57. (MLRA 10:8)

 Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. I.K.Pipina) lechebnogo fakul'teta Tbilisskogo meditsinskogo instituta (PETIC ULCER, surg,

post-gastrectomy wlcer of esophagus penetrating into aorta)

(CASTRECTOMY, compl.

ulcer of esophagus penetrating into acrts following numerous interventions for peptic ulcer)

KUMSISHVILI, N.G., inzh.; KRADKNOV, N.I., inzh.

Learning to work with prestressing beds. Bet. i zhel.-bet. no.8:375-376 Ag '60. (MIRA 13:8)

(Prestressed concrete)

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CHAVCHANIDZE, V.V.; SHADURI, R.S.; KUMSISHVILI, V.A.

Mosaic method of preparing programs for the calculation of an electron-photon cascade by means of an electronic computer using the Monte Carlo method. Trudy Inst.fiz.AN Gruz.SSR 6:59-95 '58. (MIRA 15:4)

(Programming (Electronic computers))

(Particles (Nuclear physics))

56-34-4-20/60

AUTHORS:

Chavchanidze, V. V., Shaduri, R. S., Kumsishvili, V. A.

TITLE:

The Calculation of the Electron-Photon Cascade in Lead by the Monte Carlo Method (Raschet metodom Monte-Karlo elektronno-

-fotonnogo kaskada v svintse)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958,

Vol. 34, Nr 4, pp. 912 - 915 (USSR)

ABSTRACT:

This work describes the statistical probability molding based on the method of random trials (a modification of the method by Monte Carlo). This work only describes the scheme of the calculation of the cascade omitting details. The range of the γ-quantum in lead until the first process of interaction is "drawn". The "drawing" is made for the integral curve of the dependence of the total cross section on the energy of the quantum. Then the "fate" of the y-quantum is drawn. In the case of pair production the energy of the positron is drawn and from it then the energy of the electron is ascertained. Subsequently the amounts of the ionization losses and thus also of the energy of the components of the pair before the following

Card 1/4

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APPROVED FOR RELEASE: 06/19/2000

The Calculation of the Electron-Photon Cascade in Lead 56-34-4-20/60 by the Monte Carlo Method

collisions are determined. Simultaneously also the correction for the multiple scattering is "drawn". The energy of the bremsstrahlung quantum was ascertained by the method of the construction of non-normalized integral curves with unequal argument scales. The scattering angles were "drawn" without consideration of the correlation between the scattering angles of the quantum of the electron. In the case of destruction the scattering angle of the one  $\gamma$ -quantum in the center of mass system is "drawn". From the data obtained by this also the scattering angle of the second quantum is ascertained. The results thus obtained are plotted in form of curves for the energy distribution and for the angular distribution of the electrons, positrons, and y-quanta (as functions of the generating angle of the observation cone). The computation of the electron-photon cascade is unusually long. For the factual performance of the computations electronic high-speed computers are necessary. The existing machines need not be rebuilt at all but a correspondingly performed programming is sufficient. Here 2 of such programming methods are shortly described. It is a particularity

Card 2/4

The Calculation of the Electron-Photon Cascade in Lead 56-34-4-20/60 by the Monte Carlo Method

of the first method that in the constant memory the arguments of the given probability functions are stored in a certain order. The second programming method allows the introduction of these functions into the storing device. According to the opinion of the authors the whole efficiency of the calculations by the method of random trials shows up only in case of the application of electronic computers and in case of adapted programming. The authors thank A. V. Tagviashvili, B. I. Bondarevich, L. L. Esakiya, G. A. Goradze, M. Ye. Perel'man, G. A. Almanov for their participation in the practical performance of the computations. This work was performed on the suggestion by Professor V. P. Dzhelepov in connection with the necessary estimation of the probability of the non-emission of electrons and positrons from lead plates of little thickness. The authors thank Professor Dzhelepov and his collaborators for his attentiveness and his interest in this work. There are 3 figures and 7 references, 4 of which are Soviet.

Card 3/4

The Calculation of the Electron-Photon Cascade in Lead 56-34-4-20/60 by the Monte Carlo Method

ASSOCIATION: Institut fizibi Akademii nauk Gruzinskoy SSR (Institute of Physics

AS, Georgian SSR)

SUBMITTED: September 23, 1957

1. Lead -- Nuclear reactions

Card 4/4

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S/194/62/000/006/065/232 D295/D308

AUTHORS:

Chavchanidze, V.V., and Kumsishvili, V.A.

TITLE:

Determination of distribution laws on the basis of a

small number of observations

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1962, abstract 6-2-166 n (V sb. Primeneniye vychisl. tekhn. dlya avtomatiz. proiz-va, M., Mashgiz, 1961, 129-139)

TEXT: An empirical method is suggested for determining the distribution functions of a random quantity X for the case when the number of measured values of this quantity is small (n < 10). The method is based on the use of a-priori notions on the probabilitydensity function f(x). It is assumed that f(x) is a continuous function and that  $f(x) \ge 0$  for a < x  $\le$  b, while  $f(x) \equiv 0$  for x  $\le$  a and x  $\ge$  b, i.e. the interval of possible values of f(x) is finite and known. f(x) is found as the sum of socalled contribution functions multiplied by suitable weighting coefficients. Contribution functions are meant as arbitrary functions constructed in the neighbor-Card 1/3

S/194/62/000/006/065/232 D295/D308

Determination of distribution laws ...

hood of  $x_i$  the probability density is different from zero. The summation of the contribution functions is based on the fact that each of them supplements, and makes more precise the information obtained from the preceding one. The zero-order contribution function  $f_0(x)$  represents a uniform distribution of the quantity X, since the statement of the equi-probability of the values  $x_i$  does not contradict the preliminary information. The weighting coefficients are chosen to be equal on the assumption of the equivalence of the information obtained from each  $x_i$ . For a contribution function having a rectangular form, symmetrical with respect to  $x_i$ , the weighting coefficients are chosen equal to 1/(n+1) from a normalization condition. Thus the approximate probability-density function assumes the form

$$f_n(x) = \frac{1}{n+1} \left\{ f_0(x) + \sum_{i=1}^n \Psi_{x_i}(x) \right\}, \text{ where } \Psi_{x_i(x)} \text{ are the contribution}$$
Card 2/3

8/194/62/000/006/065/232 D295/D308

Determination of distribution laws ...

tion functions. The method given has been tested for two types of probability distributions: the uniform and the gaussian distributions. Results of its comparison with the known classical method for n = 3; 4; 6; 10 are given. For each n, N = 50 constructions of the probability-density function were carried out. As a measure of the accuracy the quantities  $\eta_N$  and  $D_\eta$  were taken, where  $\eta = \max/F$  (x) -  $F_n(x)/$ ,  $\eta_N$  is an averaged value with respect to N, F(x) is the true distribution,  $F_n$  is a distribution constructed empirically,

and  $D_{\eta} = \left\{ \sum_{i=1}^{n} (\bar{\eta} - \eta_i)^2 / (\bar{N} - 1) \right\}^{1/2}$ . Calculations show that for

small values of n the method of symmetrical contributions gives indisputably better results. The method allows simple execution of calculations on computers. 4 references. [Abstractor's note: Complete translation.]

Card 3/3

CHAVCHANIDZE, V.V.; BUKREYEV, I.N.; MIKELADZE, Z.N.; KUMSISHVILI, V.A,

A new method for adding and subtracting binary digits by high-speed digital computers. Trudy Inst.fiz.AN Gruz.SSR 8:313-321 '62. (MIRA 16:2)

(Electronic digital computers)

ACCESSION NR: AR4035563

S/0271/64/000/003/B010/B010

SOURCE: Ref. zh. Avtomat., telemekh. i vy\*chisl. tekhn. Av. t. , Abs. 3B50

AUTHOR: Bokuchava, I. T.; Chavohanidze, V. V.; Kumsishvili, V. A.

TITLE: Stochastic-logical generation of digital aggregates

CITED SOURCE: Tr. In-ta kibernetiki. AN GruzSSR, v. 1, 1963, 25-35

TOPIC TAGS: stochastic process, stochastic process generation, Markov chain generation, stochastic logical generation

TRANSLATION: Generation of stochastic processes, particularly, of a simple homogeneous Markov's chain with a discrete time by means of functions of the algebra of logic is considered. Four generator types developing one and n symbols per unit of time are presented. For each generator, probabilities of pij - transitions from the i-th state to the j-th state are calculated; the maximum probabilities R<sub>1</sub> of the transitions are needed for estimating the process entropy. It is proven that by selecting suitable values of probability of using various logical functions, random processes with the required p<sub>1</sub> and R<sub>1</sub> can be obtained, i. e., the stochastic process can be controlled in a certain sense. An example is

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ACCESSION NR: AR4031086

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SOURCE: Referativny\*y zhurnal. Matematika, Abs. 2077

AUTHOR: Namoradze, N. Z.; Chavchanidze, V. V.; Kumsishvili, V. A.

TITLE: A statistical-probability simulation for making linear polymeric chains conformal in strongly diluted openings

CITED SOURCE: Tr. In-ta kibernetiki, AN GruzSSR, v. 1, 1963, 93-103

TOPIC TAGS: statistical-probability simulation, conformal linear polymeric chain, polymer configurational statistics, binyl polymer chain

TRANSLATION: The authors consider a new method for studying the configurational statistics of polymers and they demonstrate the fundamental possibility of a statistical-probability simulation for polymeric chains. They compare an algorithm for calculating, by means of the Monte-Carlo method, the conformation of separate chains of binyl polymers with massive weights. Authors' abstract

DATE ACQ: 19Mar64

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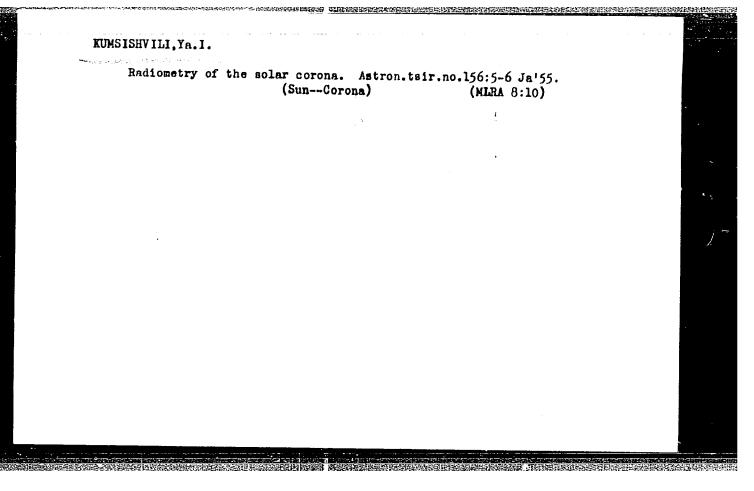
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1/1

KUMSISHVILI, Ya. I.

"Radiometry of the Sorar Corona During the June 30, 1954 Total Soral Eclipse"

(Total Eclipse of the Sun, February 25, 1952 and June 30, 1954, Transactions of the Expedition to Observe Solar Eclipses) Moscow, Izd-vo AN 888R, 1950. 357 p.



KUMSISHVILI, Ya.I.

Electrocolorimetric study of V Kridani [with summary in English]. Per.zvezdy 11 no.1:42-49 Ja '56. (MLRA 10:2)

1. Abastumanskaya astrofizicheskaya observatoriya. (Stars, Variable)

MAGALASHVILI, N.L.; KUMSISHVILI, Ya.I.; RAZMADZE, N.A.

Photoelectric observations of the spectroscopic binary BD + 39°811 [with summary in English] Biul. Abast. astrofiz. obser. no.20:11-15 '56. (MLRA 9:12)

(Stars, Double) (Photoelectric measurements)

KUMSISHVILI, Ya.I.

Radiometric observation of the molar corona at the total eclipse of June 30, 1954 [in Georgian with summaries in Russian and English]. Biul. Abast. astrofix. obser. no. 20:17-27 '56.

(Sun--Corona) (Eclipses, Solar--1954)

(Radio astronomy)

MAGALASHVILI, N.L.; KUMSISHVILI, Ya.I.

Spectral binary BD--8 19 is an eclipsing variable. Astron.tsir. no.166:20-21 Ja '56. (MIRA 9:7)

1.Abastumanskaya astrofizicheskaya observatoriya AN Gruzinskoy SSR. (Stars, Variable) (Stars, Double)

MAGALASHVILI, N.L.; KUMSISHVILI, Ya.I.

Photoelectric observations of the recurrent Nova RS Ophiuchi. Astron. tsir. no.199:17-18 Ja 159. (MIRA 13:2)

1.Abastumanskaya astrofizicheskaya observatoriya AN GruzSSR. (Stars, New)

MAGALASHVILI, N.L.; KUMSISHVILI, Ya.I.; RAZMADZE, N.A.

Electrophotometry of spectral binary BD-390811. Astron.tsir. no.166:21 Ja 156. (MIRA 9:7)

l.Abastumanskaya astrofizicheskaya observatoriya AN Gruzinskoy SSR. (Stars, Double)

MAGALASHVILI, N.L.; KUMSISHVILI, Ya.I.

Electrocolorimetric observations of star HD 184930. Astron.tsir. no.166: 21 Ja 156. (MIRA 9:7)

1. Abas tumanskaya astrofizicheskaya observatoriya AN Gruzinskoy SSR. (Stars—Color)

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MAGALASHVILI, N.L.; KUMSISHVILI, Ya.I.

Electrophotometry of the spectroscopic binary star \$12A.

Biul.Abast.astrofiz.obser. no.22:3-6 58. (MIRA 11:12)

(Stars, Double)

MAGALASHVILI, H.L.; KUMSISHVILI, Ya.I.

Photoelectric observations of 12 Lacertae. Biul.Abast.astrofiz. obser. no.22:7-18 '58. (NIRA 11:12) (Stars, Variable)

MAGALASHVILI, N.L.; KUMSISHVILI, Ya.I.

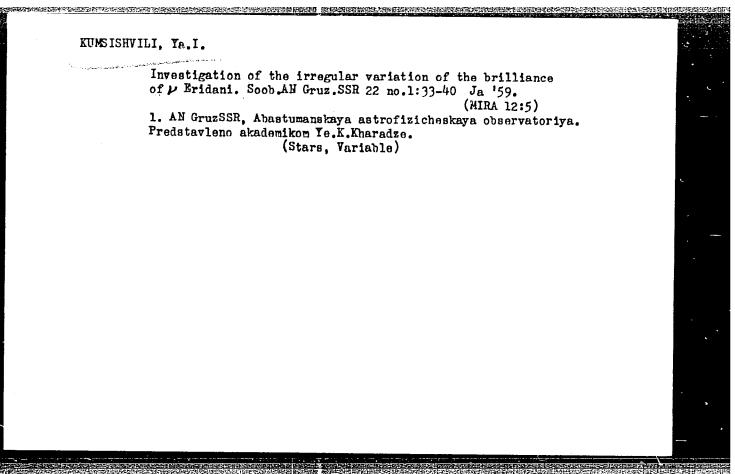
Photoelectric photometric observations of the star HD 217050. Biul.Abast.astrofiz.obser. no.22:19-24 '58. (MIRA 11:12) (Stars, Variable)

MAGALASHVILI, N.L.; KUMSISHVILI, Ya.I.

Changes in the luminosity and the color of Pegasi. Astron.tsir. no.192:23-24 My '58. (MIRA 11:10)

l. Abas tumanskaya astrofizicheskaya observatoriya AN Gruzinskoy SSR.

(Stars, Variable)



MAGALASHVILI, N.; KUMSISHVILI, Ya.

Changes in brightness and color of Ceti. Astron. tsir. no.201:15-16 Ap '59. (MIRA 13:2)

l.Abastumanskaya astrofizicheskaya observatoriya AN GruzSSR. (Stars, Variable)

KUMSISHVILI, Ya. I., Cend Phys-Math Sci -- (diss) "Electrophotometric study of the variable star Eridan." Tbilisi, Academy of Sciences Georgian SSR Publishing House, 1960. 7 pp; (Ministry of Higher Education Ukrainian SSR, Odessa State Univ im I. I. Mechnikov); 120 copies; free; (KL, 51-60, 115)

MAGALASHVILI, N.L.; KUMSISHVILI, Ya.I.

Electroeolorimetric observations of Pegasi. Per.zvezdy 13 no.1:37-40 Ap '60. (MIRA 14:3)

1. Abastumanskaya astrofizicheskaya observatoriya. (Stars, Variable)

MAGALASHVILI, N.L.; KUMSISHVILI, Ya.I.

Electrophotometry of 6 Ceti. Biul.Abast.astrofiz.obser. no.26:
3-11 '61. (MIRA 15:3)

MAGALASHVILI, N.L.; KUMSISHVILI, Ya.I.

Spectroscopic binary ≪ Virginis (Spica). Biul.Abast.astrofiz.obser. no.26:13-19 '61.

(Stars, Double)

(Stars, Double)

MAGALASHVILI, N.L.; KUMSISHVILI, Ya.I.

Spectroscopic binary star & Virginis. Astron.tsir. no.219:30 Mr '61. (MIRA 14:10)

1. Abastumanskaya astrofizicheskaya observatoriya. (Stars, Double)

MAGALASHVILI, N.L.; KUMSISHVILI, Ya.I.

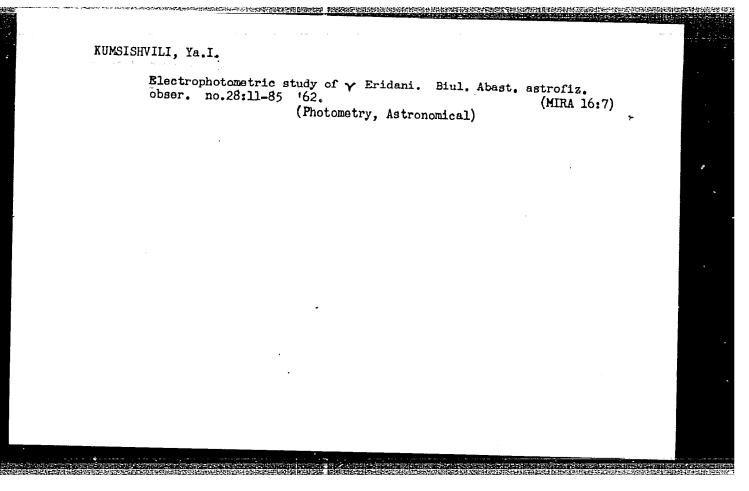
Determining the radius of CC Andromedae. Astron.tsir. no.226:7
0 '61. (MIRA 16:1)

1. Abastumanskaya astrofizicheskaya observatoriya.
(Stars, Variable)

MAGALIASHVILI, N.L.; KUMSISHVILI, Ya.I.

Determining the radius of CC Andromedae. Biul. Alast. astrofiz. obsert no.28:3-9 '62. (MIRA 16:7)

(Stars, Variable)



MAGALASHVILI, N.L.; KUMSISHVILI, Ya.I.

KP Persei. Astron.tsir. no.231:20 N 162.

(MIRA 16:4)

l. Abastumanskaya astrofizicheskaya observatoriya. (Stars, Variable)

MAGALASHVILI, N.L.; KUMSISHVILI, Ya.I.

Eclipsing variable V 502 Ophiuchi. Biul. Abast. astrofiz. obser. no.30:39-43 '64. (MIRA 17:5)

KUMSISHVILA, Ya.1.; MAGALASHVILI, H.L.; ABULADZE, O.P.

Electrocolorimetry of RW Aurigae. Biul. Abast. astrofiz.
obser. no.30:33-38 '64. (MIRA 17:5)

MAGALASHVILI, N.L.; KUMSISHVILI, Ya.I.

Variable luminosity and color in Bootis. Biul. Abast. astrofiz. obser. 32:3-7 '65.

Semiregular variable stars RW Cygni, SU Persei, and UX Draconis. Ibid.:9-20 (MIRA 18:10)

KUHSIYEV, Sh. A.

Zondirovanie v diagnostike i terapii boleznei pishchevaritel'nogo trakta sel'skokhoziaistvennykh zhivotnykh / Diagnostic and therapeutic sounding in diseases of the digestive tract in farm animals . Moskva. Sel'khozgiz, 1953. 198 p.

SO: Monthly List of Russian Accessions Vol. 6 No. 7 October 1953

KUMSIYEV, Sh.A., dotsent.

Tonometric examination of the motor function of the stomach in solid hoofed animals and of the first stomach in ruminants.

Veterinariia 31 no.2:49-51 F '54. (MIRA 7:2)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti. (Stomach) (Veterinary physiology)

### "APPROVED FOR RELEASE: 06/19/2000

#### CIA-RDP86-00513R000927520005-1

USSR/Medicine - Veterinary, Probes

Card 1/1

Author

: Kumsiyev, Sh. A., Docent

Title

: Speeding up withdrawal of contents of the rumen in cattle

Periodical

: Veterinariya, 31, 55-57, Apr 1954

Abstract

: Inserting two probes, one into each nostril, is a new method recommended for withdrawing contents of rumen of cattle. This method can be used in emergency cases of overdistention of the rumen and is harmless. Water is poured into one probe and the loosened contents of the rumen pass out through the other probe. This method is superior to any other method that has been in use. Illustrations.

Institution : Moscow Chemicotechnological Institute of Meat Industry

Submitted

Name: KUMSIYEV, Shalv Alekseyevich

Dissertation: Hydrotherapy of agr animals with

alsordered function of the stomach
APPROVED FOR RELEASE: 06/19/2000 18 CIA-RDP86-00513R000927520005-1

ology, pathology, and therapy)

Degree: Doc Vet Sci

Affiliation: Moscow Technological Inst of Meat

and Dairy Industry

Defense Date, Place: 26 Oct 56, Council of Moscow Vet Acad

Certification Date: 8 Jun 57

Source: BMVO 16/57

KUMSIYEV, SH. A.

KUMSIYEV, Sh. A.: "The hydrotherapy of agricultural animals with disorders to stomach functions (based on experimental physiology, pathology, and therapy)." Moscow Veterinary Academy, Min Higher Education USSR. Moscow, 1956. (Dissertations for the Degree of Doctor in Veterinary Sciences).

SO: Knizhnays letopis' No. 35, 1956. Moscow

IONOV, Petr Semenovich; KUMSIYEV, Shalva Alekseyevich; SHAPTALA, Ivan Prokof'yevich; MUSIN, A.D., red.; GOR'KOVA, Z.D., tekhn.red.

[Principles of therapeutic practice in veterinary medicine; with elements of diagnosis] Osnovy terapevticheskoi tekhniki v veterinarii; s elementami diagnostiki. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1957. 274 p. (MIRA 11:1)

(Veterinary medicine)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927520005-1"

KUMSIYEV, Sh.A., dotsent.

Hydrotherapy for domestic animals with impairment of gastric functions. Veterinaria 34 no.1:49-59 Ja '57. (MLRA 10:2)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti i Moskovskaya veterinarnaya akademiya.

(Stomach---Diseases) (Hydrotherapy)

(Veterinary medicine)

KUMSIYEV Sh.A. doktor vet. nauk

Problems in veterinary stomatology. Veterinaria 35 no.11: 37-41 H 158. (MIRA 11:10)

1. Moskovskiy tekhnologicheskiy institut myssnoy i molochnoy promyshlennosti.

(Veterinary medicine) (Nouth--Diseases)

KUMSIYEV, Sh.A., doktor veter.nauk

Diagnostic importance of investigating the anus and rectum.

Veterinaria 37 no.1:54-58 Ja '60. (MIRA 16:6)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti.

(Anus) (Rectum)

IONOV, P.S., prof.; KUMSIYEV, Sh.A., doktor veterinarnykh nauk

Method for studying the urinary systems of mares and cows. Veterinariia 37 no.9:54-55 S 160. (MIRA 14:11)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molechnoy promyshlennosti.

(Mares)

(Cows)

(Urinary organs)

IONOV, P. S., RADKEVICH, P. E. and KUMSIYEV, Sh. A.

"Internal non-infectious diseases of cattle." M. Sel'khozgiz, 1961.

Veterinariya, vol. 39, no. 8, August 1962, p. 88

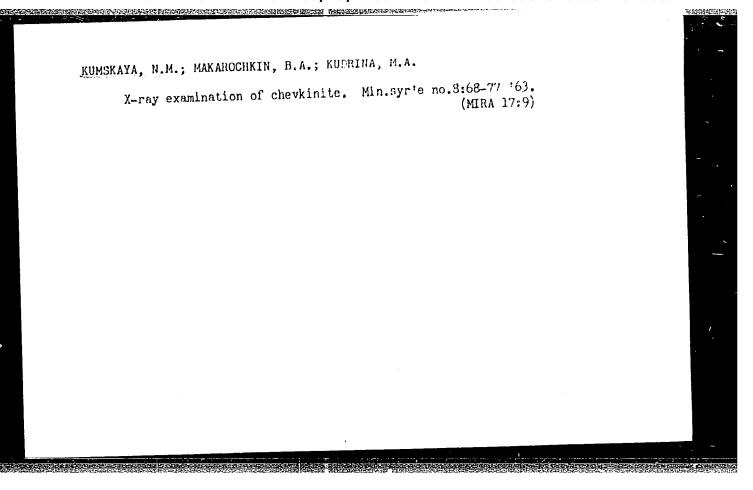
KUMSIYEV, Shalva Alekseyevich, prof., doktor veter. nauk; SOKOLOVA, G.S., red.; FEDOTOV. V.G., red.; SAYTANIDI, L.D., tekhn. red.

[Diagnosis and treatment of diseases of the digestive organs in animals]O diagnostike i terapii zhivotnykh s zabolevaniiami organov pishchevareniia. Moskva, Izd-vo M-va sel'skogo khoziaistva RSFSR, 1962. 95 p. (MIRA 16:3)

[Digestive organs—Diseases]
(Veterinary medicine)

KUMSIYEV, Shalva Alekseyevich, doktor veter. nauk; FEFERMAN, A.Ye., red.

[Methods for the examination and treatment of animals with diseases of the digestive organs] Metody obsledovation i terapii zhivotnykh s zabolevanijami organov pleshchovarenija. Moskva, Rosseltkhozizdat, 1965. 196 p. (MIRA 19:1)



Aerial reconnaissance by fighter planes flying in pairs. Vest.Vozd.
Fl. no.3:19-22 Kr '60. (MIRA 13:9)

(Aeronautics, Military—Observations)

SHUBNIKOV, A.K., professor, redaktor; TEBENIKHIN, Ya.F.; SHAPROV, M.F.; ZAKHAROV, A.N.; KUMSKOV, Y.T., kandidat tekhnicheskikh nauk, redaktor; VERINA, G.P., tekhnicheskiy redaktor

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[Technology of fuels, water and lubricants] Tekhnologifa topliva, vody i smazki. Moskva, Gos. transp. zhel-dor. izd-vo, 1954. 404 p. (Fuel) (Water) (MLRA 7:10) (Imbrication and lubicants)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927520005-1"

NUMSKOV, V.T., kandidat tekhnicheskikh nauk.

Investigation of the operation of scale removers. Trudy MIIT no.82/83:46-61 '55.

(Locomotive boilers)

sov/81-59-13-46029

Translation from: Referativnyy zhurnal, Khimiya, 1959, Nr 13, p 253 (USSR)

AUTHORS:

Goryainov, L.I., Kumskov, V.T.

TITLE:

On the Convective Component of a Complex Heat Exchange at High Temperatures 2

PERIODICAL:

Sb. Leningr. in-ta inzh. zh.-d. transp., 1958, Nr 160, pp 234 - 240

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ABSTRACT:

It has been found that the equations of convective heat emission, derived on the basis of the generalization of experimental data obtained at relatively low temperatures, cannot be applied without experimental checking to the calculation of heat emission in the complex process of heat exchange at relatively high temperatures; if the physical parameters are referred to the average temperature of the flow. In the application of the mentioned equations corrections must be introduced, e.g. in the form of a temperature simplex. It has been noted that the described method of using the equations of convective heat emission is suitable for the calculation of heat emission in the combustion chambers of boilers, in gas turbines and other heat-exchanging installations.

From the author's summary

Card 1/1

18(5) AUTHOR:

SOV/128-59-9-8/25 Ninua, N.Ye., and Kumskov, V.T., and Aksenov K.F.,

Candidates of Technical Sciences

TITLE:

Regenerative Air Heating in Cupolas

PERIODICAL:

Liteynoye proizvodstvo, 1959, Hr 9, pp 27-29 (USSR)

ABSTRACT:

Utilization of cupola outlet gases represents one of the most important factors in increasing foundry productivity. The Iron Foundry imeni Voykov has introduced an air-heating process whereby the outlet gases having a temperature of 500 - 800 C are passing through a number of balls placed in a cylinder (Fig 6). The air-heater is provided with a rotor that has 12 sectors and serves for rotation of the balls. The optimum diameter of balls may vary from 3 to 10 mm depending on the cleanliness of gases passing through them. The function of the air-heater consists of an alternating admission of hot gases and cool air into the cylinder. The gases entering the air-heater are giving a part of their heat to the balls which, in turn, heat up the air passing through the cylinder. Thus, the gases cool off from 800°C to 250°, while the air becomes heated up to 400°- 420°C. Rotation

Card 1/2

SOV/128-59-9-8/25

Regenerative Air Heating in Supolas

of balls intensifies the process of heat-exchange between the gases and the balls, and favors the rate of air-heating. At the same time, the air-heater serves as a cleaning medium purifying the cupola outlet gases. There are 4 graphs, 6 diagrams and 2 Soviet references.

Card 2/2

GORYAINOV, L.A., inzh.; KUMSKOV, V.T., kand. tekhn. nauk

Calculating the radiant component of combined heat exchange. Trudy
MIIT no.112:130-140 '59.

(Heat--Radiation and absorption)

KUMSKOV, V.T., kand.tekhn.nauk; KONAKOV, P.K., doktor tekhn.nauk;
NIKITIN, Ye.A., inzh.; AKSKNOV, K.F., kand.tekhn.nauk;
GUTKIN, L.V., kand.tekhn.nauk; BOBROVA, Ye.N., tekhn.red.

[Thermal processes in electric and diesel locomotives] Teplonye protsessy teplovozov i elektrovozov. Moskva, Vaes.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia, 1960. 178 p. (MIRA 13:11)

(Diesel locomotives) (Electric locomotives)

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S/170/60/003/011/016/016 B019/B056

AUTHORS: Kumskov, V. T., Pokalyuk, A. I., Smirnov, V. A.

TITLE; Intercollegiate Conference on the Principle of Similarity

and Its Application in Heat Engineering

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1960, Vol. 3, No. 11,

pp. 120-124

TEXT: From June 6 to June 10, 1960, the mezhvuzovskaya konferentsiya po teorii podobiya i yeye primeneniyu v teplotekhniki (Intercollegiate Conference on the Principle of Similarity and Its Application in Heat Engineering) was held at the Moskovskiy institut inzhenerov transporta (MIIT) (Moscow Institute of Transportation Engineers). The Conference was attended by roughly 500 scientific workers. 68 lectures were delivered. After the opening words spoken by the President of the Organization Committee. Deputy Chief of the MIIT, Professor A. I. Ioannisyan, Professor P. K. Konakov (MIIT) began his lecture on "The Present Stage of the Principle of Similarity and the Perspectives of Its Application in Heat Engineering". Academician of the AS BSSR, A. V. Lykov of the Institut

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Intercollegiate Conference on the Principle S/170/60/003/011/016/016 of Similarity and Ita Application in Heat B019/B056

energetiki AN BSSR (Institute of Power Engineering of the AS BSSR) investigated problems of the integral transformations and operator methods and their relations to the principle of similarity. Professor V. A. Venikov of the Moskovskiy energeticheskiy institut (Moscow Institute of Power Engineering), holder of the Lenin Prize, investigated problems concerning the relations between investigations carried out on models, in nature, and analytical investigations. Professor S. G. Teletov of the Institut atomnoy energii AN SSSR im. I. V. Kurchatova (Institute of Atomic Energy of the AS USSR imeni I. V. Kurchatov) in his lecture studied the planning of experimental investigations in correspondence with the demands made by the principle of similarity. According to the opinion of Professor A. A. Gukhman of the Moskovskiy institut khimicheskogo mashinostroyeniya (Moscow Institute of Machine Construction), the most important problem is that of the development of methods, by means of which it is possible to built up the characteristic variables of a physical problem. Professor Ye. V. Kudryavtsev of the ENIN AS USSR attached great importance to the principle of similarity in the investigation of heat exchange processes. Professor L. I. Kudryashchev of the Kuybyshevskiy aviatsionnyy institut

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Intercollegiate Conference on the Principle S/170/60/003/011/016/016 of Similarity and Its Application in Heat B019/B056 Engineering

(Kuybyshev Aviation Institute) and Candidate of Technical Sciences A. G. Temkin of the Kaliningradskiy tekhnicheskiy institut rybnoy promyshlennosti i khozyaystva (Kaliningrad Technical Institute of the Fisheries and Economics) also delivered lectures which are not dealt with in detail. The theoretical section of the Conference was under the chairmanship of Professor Konakov. Here, 17 lectures were delivered. The lecture by B. V. Kantorovich of the Institut goryuchikh iskopayemykh AN SSSR (Institute of Fuel Minerals of the AS USSR) had the title "The Application of the Principle of Similarity in Investigations of Combustion Processes". The lectures delivered by V. A. Shvab, M. Ye. Dogin of the Tomskiy elektromekhanicheskiy institut inzhenerov zheleznodorozhnyy transporta (Tomsk Electromechanical Institute for Railroad Engineers) and by 2. M. Kudryavtseva of the TsNIIchermet dealt with the application of the principle of similarity in investigations of the motions of drop-gas mixtures in pipelines. The lectures delivered by Professor L. I. Kudryashov (Kuybyshev Aviation Institute) and Professor A. V. Teplov of the Voyennaya akademiya tyla i transporta (Military Academy for Supplies and Transportation) dealt with the gas-dynamical simulation of

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Intercollegiate Conference on the Principle S/170/60/003/011/016/016 cf Similarity and Its Application in Heat B019/B056 Engineering

municipal gas lines. V. M. Golovin (Kuybyshev Aviation Institute) dealt with the estimation of the dissipation of mechanical energy in motions of liquids. V. O. Fogel: of the Moskovskiy institut tonkoy khimicheskiy tekhnologii (Moscow Institute of Chemical Technology) investigated the application of the principle of similarity and the electric simulation for the investigation of vulcanization processes. A. V. Temikov (Kuybyshev Aviation Institute) delivered a lecture on "The Similarity of Phenomena of Nonsteady Heat Conduction in Metals". G. P. Ivantsov (TeNIIchermet) dealt with the application of gauge transformations to problems of mathematical physics and heat engineering. A. M. Kulik (Institute of Atomic Energy of the AS USSR imeni I. V. Kurchatov) investigated the application of the principle of similarity to nonsteady temperature fields. Yu. N. Zakharov cf the Novosibirskiy institut inzhenerov vodnogo transporta (Novosibirsk Institute for Water-transportation Engineers) investigated the rules governing the functioning of jets. The application of the principle of similarity for the purpose of investigating the nonsteady temperature fields in complex bodies was dealt with by A. G. Temkin. A. M. Shedrin of the Neuchno issledevatel skiy institut sel akogo stroitel stva (Scientific

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Research Institute for Rural Constructions) investigated the application of the principle of similarity to elasticity effects. The section for heatmass exchange was under the chairmanship of Academician of the AS BSSR A. V. Lykov. Yu. A. Mikhaylov of the Institut energetiki i elektrotekhniki AN Laty. SSR (Institute of Power Engineering and Electrotechnics of the AS Latviyskaya SSR) investigated heat-mass exchanges in disperse media. A. V. Ralko of the Kiyevskiy politekhnicheskiy institut (Kiyev Polytechnic Institute) investigated the simulation of glowing processes. G. N. Sizov of the Tsentral nyy nauchno-issledovatel skiy institut ekonomiki i ekspluatatsii vodnogo transporta (Central Scientific Research Institute for the Productivity and Exploitation of Water Transports) investigated the simulation of the turbulent heat exchange. Z. M. Miropoliskiy of the Mcskovskiy lesotekhnicheskiy institut (Moscow Institute of Forestry) investigated the heat exchange in the condensation of high tension steam. B. I. Kolbasov (Institute of Atomic Energy of the AS USSR imeni Kurchatov) spoke about the results of an investigation of the heat exchange in the critical region in the flow of carbonic acid in tubes. Most of the lectures were delivered in the section for heat exchange. The section was supervised

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Intercollegiate Conference on the Principle 5/170/60/003/011/016/016 of Similarity and Its Application in Heat B019/B056 Engineering

by Professor Pa Na Pomanenko. Professor A. Ma Gurvich of the TaKTI imeni Polzunev reported on research work in the Laboratoriya luchistogo teploobmena Takti (Laboratory of Radiation Heat Exchange of the Takti) carried out in the course of recent years. Ye. P. Karasev of the Leningradskoye vyssheye voyenno-morskoye inzhenernoye uchilishche im. Dzerzhinskogo (Leningrad Higher Naval Engineering School imen: Dzerzhinskiy) dealt with the simulation of steam aggregates. P. N. Pomanenko investigat ed the resistance and the heat exchange of a turbulent gas flow in diffuser-channels. V. P. Motulevich of the ENIN AS USSR dealt with the heat exchange and the friction of plates in a gas flow. B. S. D yachenko of the Nikolayevskiy korablestroitel nyy institut im. admirala Makarova (Nikolayev Shipbuilding Institut imeni Admiral Makarcv) dealt with the estimation of heat exchangers of gas turbines in shipbuilding. V. G. Dorofeyey of the Novocherkasskiy politekhnicheskiy institut (Novocherkassk Polytechnic Institute) gave the results of an investigation of the heat exchange of electrolocomotive resistors, P. M. Brdlik G. Ye. Verevochkin, and V. A. Smirnov (MIIT, ENIN AS USSR) investigated the heat exchange between jets and plates. Ye. V. Kudryavtsev and K. N. Kachalev (ENIN AS Card 6/10

Intercollegiate Conference on the Principle S/170/60/003/011/016/016 of Similarity and Its Application in Heat B019/B056 Engineering

USSR) investigated the operation of an electronic universal calorimeter. K. F. Aksenov of the Vsesoyuznyy zaochnyy institut inzhenerov transporta (All Union Correspondence Institute for Transportation Engineers) reported on experimental data concerning a heat exchanger. S. S. Filimonov and B. A. Khrustalev (ENIN AS USSR) reported on thermotechnical investigations of the flow of a liquid through tubes. A. I. Leont'yev (Moscow Institute of Forestry). N. Ye. Ninua of the Gruzinskiy politekhnicheskiy institut (Georgian Polytechnic Institute), G. P. Boykov (Tomsk Polytechnic Institute), I. S. Kochenov, and G. Ye. Morezev (Institute of Atomic Energy of the AS USSR imeni I. V. Kurchatov) A. A. Smirnov (Kuybyshev Aviation Institute), and V. G. Ushakov of the Novocherkasskiy politekhnicheskiy institut (Novocherkassk Polytechnic Institute) delivered lectures which are mentioned in passing only. The last day was devoted to the works in the Simulation Laboratory of the Kafedra "Teplosilovyye ustanovki" MIITa (Chair of "Thermal Power Plants of the MIIT). A lecture delivered by P. K. Konakov was on "The Rules of the Complex Heat Exchange". V. T. Kumskov (MIIT) delivered the lecture "An Investigation of the Complex Heat Exchange in Combustion Chambers". V. I. Lebedev reported on Card 7/10

Intercollegiate Conference on the Principle S/170/60/003/011/016/016 of Similarity and Its Application in Heat B019/B056 Engineering

"An Investigation of the Action of the Degree of Blackening Upon the Heat Exchange in Combustion Chambers". The section for thermal power machines was under the supervision of Professor V. V. Lakhanin (Novosibirsk Institute for Water Transportation Engineers). In his lecture he dealt with a detailed analysis of the heat calculation of piston machines. In this connection, B. Kh. Draganov of the Ukrainskaya akademiya sel skokhozyaystvennykh nauk (Ukraine Academy of Eccnomics) is mentioned. The collaborators of the Central Scientific Research Institute of Economics and Exploitation of Water Transportation carried out experiments on the application of the principle of similarity for transport calculations. S. N. Dashkov (Military Academy for Supplies and Transportation ) spoke about the application of the principls of similarity in the calculation of motorcar engines. M. G. Kruglov and N. P. Kozlov of the MVTU imeni Bauman gave a report on the application of the principle of similarity in the investigation of processes in combustion engines. L. I. Fomkinskiy (Central Scientific Research Institute of Economics and the Exploitation of Water Transportation) investigated the methods of calculating river transportation. B. I. Buber of the Murmanskoys vyssheys morekhodnoys Card 8/10

Intercollegiate Conference on the Principle S/170/60/003/011/016/016 of Similarity and Its Application in Reat B019/B056 Engineering

uchilishche (Murmansk Higher College of Navigation) investigated the optimum operation conditions for steam engines for ships. Ye. A. Nikitin of the Kalomenskiy teplovozostroitel nyy zavod im. Kuybysheva (Kalomensk Steam Locomotive Factory imeni Kuybyshev) spoke about investigations of compressorless Diesel engines by means of the principle of similarity. M. P. Aleksandrov of the MVTU imeni Bauman applied the principle of similarity to the determination of the heating of braking systems. V. D. Zinevich of the Leningradskiy gornyy institut (Leningrad Mining Institute) investigated pneumatic motors produced by the factory "Pnevmatika" of the Lengorsovnarkhoz on the basis of the principle of similarity, B. Kh. Draganov (Ukraine Academy of Economics) and K. Ye. Ucheshko (Nikolayev Shipbuilding Institute imeni Admiral Makarov) studied the application of the principle of similarity to steam power engines. The section made decisions concerning the further development of the application of the principle of similarity, which are summarized in form of three points. Furthermore, the senior editor of the "Inzhenemos fizicheskiy zhurnal", Academician of the AS BSSR A. V. Lykov is requested to publish works on the principle of similarity regularly. Energoizdat is requested to Card 9/10

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Intercollegiate Conference on the Principle S/170/60/003/011/016/016 of Similarity and Its Application in Heat B019/B056 Engineering

publish monographs on the principle of similarity. The AS BSSR and the Ministerstvo vysshego i srednego spetsial noge obrazovaniya SSSR (Ministry for Higher and Medium Special Training of the USSR) are requested to increase the volume of the present periodical. Suggestions are made concerning the improvement of the degree of education of engineers.

Card 10/10

KUMSKOV, V. T., dotsent, kand.tekhn.nauk; SMIRNOV, V.A., starshiy nauchnyy sotrudnik, kand.tekhn.nauk

Theory of similitutde and its application in heat engineering.
Inzh.-fiz.zhur. no.4:142-144 Ap '60. (MIRA 13:8)
(Dimensional analysis) (Heat engineering)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927520005-1"

KUMSKOV, V.T., kandtekhn.nauk, dotsent; GORYAINOV, L.A., assistent

Concerning the features of complex heat exchange. Trudy MIIT no.125:104-121 '60. (MIRA 13:10)

(Heat--Transmission)

KUMSKOV, V.T., kand.tekhn.nauk, dotsent; SIDOROV, V.S., inzh.

Heat exchange calculations for boiler burners. Trudy MIIT nc.125:132(MIRA 13:10)

(Boilers) (Heat—Transmission)

KUMSKOV, V.T.

Study of complex heat exchange in combustion chambers. Trudy MIIT no.139: 84-90 '61. (MIRA 16:4)

1. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta.
(Heat exchangers) (Thermodynamics) (Combustion research)

(MIRA 14:12)

GORYAINOV, L.A., inzh.; KUMSKOV, V.T., kand.tekhn.nauk; IEBEDEV, V.I., inzh.

Studying the heat exchange in the furnace of a boiler by means of a model and of the furnace itself. Trudy MIIT no.138:87-92

(Heat-Transmission)
(Furnaces-Testing)

161.

S/649/61/000/139/007/018 1028/1228

**AUTHOR:** 

Kumskov, V. T.

TITLE:

Study of complex heat exchange in chambers of combustion

SOURCE:

Moscow: Institut inzhenerov zheleznodorozhnogo transporta. Trudy, no. 139. 1961.

Teoriya podobiya i yeye primeneniye v teplotekhnike; trudy pervoi mezhvuzoskoy kon-

ferentsii, 84-90

TEXT: A method of calculating heat exchange in furnace chambers replaces that based on Stefan-Boltzmann's law, which is not convenient for a non-equilibrium state of the medium, as the degree of blackness is very difficult to determine in this case. The proposed new method, based on Konakov uses the experimentally verified assumption that a layer in which molecular and radiant temperatures are equal exists near the heat-perceiving surfaces. Formulas determine during the preliminary design calculations the effective radiative surface of the furnace. There are 3 figures.

ASSOCIATION: Moskovskiy institut inzhenerov zheleznodorozhnogo transporta (Moscow Institute of

Railway Transport Engineers)

Card 1/1

KUMSKOV, Viktor Timcfeyevich, kand. tekhn. nauk; MAKHAN'KO, Mikhail Grigor'yevich; BARTOSH, Ye.T., kand. tekhn. nauk, retsenzent; SMIRNOV, V.A., kand. tekhn. nauk, red.; BOBROV, Ye.N., tekhn. red.

[Fundamentals of heat engineering] Osnovy teplotekhniki. Moskva, Transzheldorizdat, 1962. 231 p. (MIRA 15:6) (Heat engineering)

KUMSKOV, V.T., kand. tekhn. nauk, dots.; PCKALYUK, A.I., kand.
tekhn. nauk, dots.; PERELET, V.I., dots., reteenzent;
GRITSEVSKIY, M.Ye., inph., red.; KHITROVA, N.A., tekhn.
red.

[Fuel and combustion processes] Toplivo i protsessy goreniia. Moskva, Transzheldorizdat, 1963. 191 p.

(Fuel) (Combustion)

(Fuel) (Combustion)

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AN4048669 BOOK EXPLOITATION

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Kunskov, V. T.; Pokelyuk, A. I.

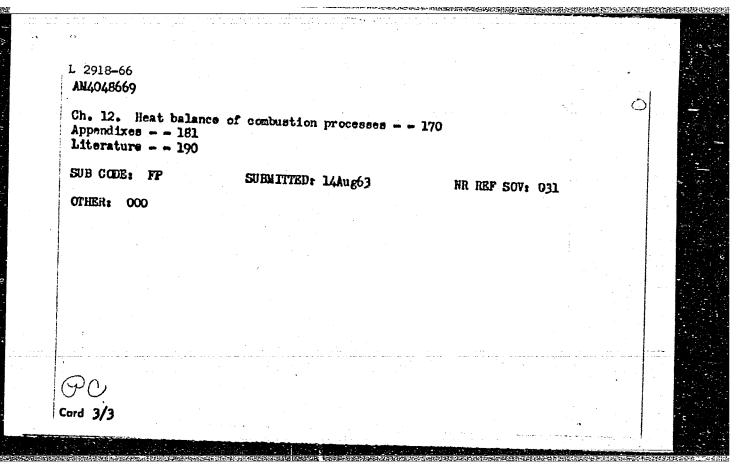
Fuel and combustion processes (Toplivo i protsessy goreniya) Moscow, Transzheldorizdat, 1963. 191 p. illus., biblio., tables. 5000 copies printed. Authorized
as a textbook by Glavnoye upravleniye uchebnymi zavedeniyami MPS. Reviewer;
Docent V. I. Perelt; Editor: Engineer M. Ye. Gritsevskiy; Scientific editor for
literature on the locomotive economy: V. A. Drobinskiy; Technical editor: N. A.
Khitrova; Proofreader: A. A. Tomilina

TOPIC TAGS: combustion, fuel, gaseous fuel, liquid fuel, solid fuel

PURPOSE AND COVERAGE: This book was intended as a textbook for students in power specializations in higher educational institutions for railroad transport and may be used also by students in other specializations and also by engineers and technicians. A brief characterization of sources of thermal power is given, followed by classifications and the physical-chemical properties of fuels. The physical-chemical bases of the combustion processes are analyzed for solid, liquid, and gaseous fuels. The authors express their gratitude to Docent V. I. Perslet and to the members of the Kafedra Teplotekhnikia of the Khar'kovskiy Institut Inshenerov

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L 2918-66 AM4048669  zheleznodorozhnogo transporta.  TABLE OF CONTENTS:  From the authors 3 Introduction 5 Part I. Fuel Ch. 1. General information concerning fuel 9 Ch. 2. Heat of combustion of fuel 23 Ch. 3. Investigation of fuel 32 Ch. 4. Solid fuel 40 Ch. 5. Liquid fuel 52 Ch. 6. Gaseous fuel 68 Part II. Combustion processes Ch. 7. Thermal effects and kinetics of the processes of fuel combustion 79 Ch. 8. Physical-chemical bases of combustion of gaseous fuel 97 Ch. 9. Physical-chemical bases of combustion of liquid fuel 126 Ch. 10. Physical-chemical bases of combustion of solid fuel 138 Cord 2/3			まるとと ないこと ないこと ない はい	PREMIUR PERMITS AND A STATE OF THE PERMITS AND A	29、新疆市市市日本部份10年的市	<b>第五条数数数数数数数数</b>
zheleznodorozhnogo transporta.  TABLE OF CONTENTS:  From the authors 3 Introduction 5 Part I. Fuel Ch. 1. General information concerning fuel 9 Ch. 2. Heat of combustion of fuel 23 Ch. 3. Investigation of fuel 32 Ch. 4. Solid fuel 40 Ch. 5. Liquid fuel 52 Ch. 6. Gaseous fuel 68 Part II. Combustion processes Ch. 7. Thermal effects and kinetics of the processes of fuel combustion 79 Ch. 8. Physical-chemical bases of combustion of gaseous fuel 97 Ch. 9. Physical-chemical bases of combustion of liquid fuel 126 Ch. 10. Physical-chemical bases of combustion of solid fuel 138 Ch. 11. Material balance of combustion of solid fuel 138			• • • • • • • • • • • • • • • • • • •			
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[Regenerative rotary air preheaters] Regenerativnyi vrashchaiushchiisla vozdukhopodogrevatel'. Moskva, Vysshaia shkola, 1965. 105 p. (MIRA 18:7)

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UR/2649/65/000/189/0005/0014

AUTHOR: Kumskov, V. T.

TITLE: Complex heat exchange studies

SOURCE: Moscow. Institut inzhenerov zheleznodorozhnogo transporta. Trudy, no. 189, 1965. Issledovaniye teploobmena v teploenergeticheskikh ustanovkakh i v ustanovkakh dlya polucheniya poluprovodnikovykh materialov (Investigation of heat exchange in thermal power units and in equipment for producing semiconductor materials). 5-14

TOPIC TAGS: heat exchange, heat transfer, heat conduction, heat convection, heat radiation

ABSTRACT: This article gives a short survey of research on composite heat exchange and indicates the trend of this research. This review indicates that the concept of diffuse transfer of radiant energy in absorbent media is fruitful and is used by most research workers. Expressions for the radiant energy transfer vector must be used which account for peculiarities in the spatial distribution of radiation intensity. Use of integral and differential equations for problems of radiant heat exchange gives practically identical results. Boundary layer equations may also be

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used for problems of radiant heat exchange in absorbing media. Very little experimental research is being done on the mechanism of complex transfer of heat energy by radiation and convection with respect to varying optical density characteristics of the medium. Work is needed in calculating the absorption factor. These considerations may obviously serve as a basis for standard complex heat exchange working formulas in combustion chambers of ovens, boilers and other heat exchange equipment where the transfer of heat energy is accomplished by combined effects of heat conductivity, convection and radiation. Orig. art. has: 8 formulas.

ASSOCIATION: Moskovskiy institut inzhenerov zheleznodorozhnogo transporta (Moscow Institute of Railroad Engineers)

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SUB CODE: TD, IE

NO REF SOV: 030

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S/878/62/000/001/002/003 D228/D307

AUTHOR:

Kumskova, N.M.

TITLE:

X-ray study of minerals of the columbite-tantalite

group

SOURCE:

Ukraine. Glavnoye upravleniye geologii i okhrany nedr. Rentgenografiya mineral'nogo syr'ya. no. 1, Moscow, 1962, 113-119. Trudy Pervogo Vscsoyuznogo soveshchaniya v Kieve 25-29 sentyabrya 1959 g,

113-119

The powder method and a 53.7 mm diameter camera were used to investigate the diffraction patterns of natural specimens of columbite-tantalite. Examination of more than 50 Debye powder patterns disclosed the existence of 7 types of diffraction pattern. The movement of individual lines on the Debye powder patterns may be related to the presence of impurities, detected in the samples studied, and not to the variable concentration of Mn and Fe. Data for a specimen with 9.6% Sn showed that, in comparison with the Debye powder

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X-ray study of minerals ...

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pattern of normal columbite-tantalite, numerous additional reflections appeared as the diffraction pattern became generally weaker. There was no cassiterite phase. Roasting at temperatures of up to 1200°C did not alter the diffraction pattern. The stability of tin-tantalite during roasting may be due to the fact that Sn forms isomorphous mixtures with Ta and Nb at high temperatures. There are 2 figures and 2 tables.

ASSOCIATION:

Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya (All-Union Scientific Research Institute of Mineral Materials)

Card 2/2

MATIAS, V.V.; ROSSOVSKIY, L.N.; SHOSTATSKIY, A.N.; KUMSKOVA, N.M.

On the new mineral - magnocolumbite. Dokl. AN SSSR 148 no.2: 420-423 Ja 163. (MIRA 16:2)

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